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CR-131610

# APPRAISING CHANGES IN CONTINENTAL MIGRATORY BIRD HABITAT

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1 MAY 1973

Type I Progress Report for Period 1 March 1973 - 30 April 1973

Prepared for:

Goddard Space Flight Center  
Greenbelt, Maryland 20771

(E73-10534) APPRAISING CHANGES IN CONTINENTAL MIGRATORY BIRD HABITAT Progress Report, 1 Mar. - 30 Apr. 1973 (Bureau of Sport Fisheries and Wildlife)	N73-22298
3 p HC \$3.00	Unclas CSCL 06C G3/13 00534

Publication authorized by the Director, Bureau of Sport Fisheries & Wildlife

Type 1 Progress Report  
ERTS-A

- a. Title: Appraising Changes in Continental Bird Habitat  
ERTS-A Proposal No.: SR 255
- b. GSFC ID No. of P.I.: IN 051
- c. Statement and explanation of any problems that are impeding the progress of the investigation:  

None
- d. Discussion of the accomplishments during the reporting period and those planned for the next reporting period:

ERTS-1 data collected on 31 July 1972 over east-central North Dakota had previously been processed and recognition maps of ponds and lakes had been produced. During this reporting period airborne MSS data collected three days previous to that ERTS-1 overflight were similarly processed. This aggregate data processing effort has served to demonstrate the feasibility of mapping ponds and lakes using joint aircraft and spacecraft products. The importance that ERTS data be supplemented with aircraft data has been demonstrated. These data have been analyzed and the results published in a paper presented at the Symposium on Significant Results Obtained from ERTS-1 at New Carrollton, Maryland, 5-9 March 1973. The work to date constitutes a preliminary data analysis phase.

Based on these processing experiences a Data Analysis Plan has been prepared and submitted. Generally there were no significant modifications to our original plan for the analysis of data.

During the next reporting period ground truth data will be collected during ERTS overpasses which occur in mid and latter May. This will be the first of two data collection periods which are linked closely with seasonal change in waterfowl habitat and which have been rescheduled for 1973 due to the delayed launch of ERTS-1 the previous year.

e. Discussion of significant scientific results and their relationship to practical applications or operational problems including estimates of the cost benefits of any significant results. (To be prepared in scientific abstract form of 200 words or less):

(Category 7K)

f. A listing of published articles, and/or papers, pre-prints, in-house reports, abstracts of talks, that were released during the reporting period:

Work, E.A., D.S. Gilmer, and A.T. Klett. Preliminary evaluation of ERTS-1 for determining numbers and distribution of prairie ponds and lakes, in proceedings of Symposium on Significant Results Obtained from ERTS-1, National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, (in publication).

g. Recommendation concerning practical changes in operations, additional investigative effort, correlation of effort and/or results as related to a maximum utilization of the ERTS system:

It is strongly urged that aircraft MSS support be provided during 1973. It is most desirable that aircraft data be available for assistance in training set utilization, for supplying small scale detail with which to correlate the large scale satellite data, and for providing confirmation of satellite data interpretation.

h. A listing by date of any changes in Standing Order Forms:

April 18, 1973

i. ERTS Image Descriptor forms:

Nothing to report.

j. Listing by date of any changed Date Request forms submitted to Goddard Space Flight Center/NDPF during the reporting period:

None

k. Status of Data Collection Platforms (if applicable):

Not applicable.